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Oct 97

H $\alpha$  SOLAR FLARES

OCTOBER 1997

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
																Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
0001	MEUD	01	1127	1138	1152	N20	E90		10	8.4	25	SF			C				T
0002	MEUD	01	1448	1520	1538	N23	E50		10	5.5	50	SF			C				
0003	LEAR	02	0242	0245	0256	S35	E54	8090	10	6.4	14	SF		3	E		36		
0004		02	1300	1300	1306	N24	E68	8091	10	7.8	6	SF					14		F
	RAMY	02	1300	1300	1306	N24	E67	8091	10	7.7	6	SF		4	E		14		F
	KANZ	02	1303E	1303U	1307D	N23	E68	8091	10	7.8	4D	SF		2	C				
0005	LEAR	03	0521	0523	0528	N18	E55	8091	10	7.4	7	SF		3	E		24		
0006		03	11552	1158	1210	N21	E59	8091	10	8.0	15	SF					14		FH
	MEUD	03	1155	1158	1216	N22	E60	8091	10	8.1	21	SF			C				
	RAMY	03	1157	1158	1205	N20	E58	8091	10	7.9	8	SF		3	E		14		FH
0007	KANZ	03	1212E	1212U	1216	N21	E60	8091	10	8.1	4D	SF		2	C				
		03	2139		2150	No Flare Patrol													
0008	HOLL	05	1753	1757	1809	N18	E22	8091	10	7.4	16	SF		3	E		28		F
0009	KANZ	06	0857	0857	0901	N25	E12	8091	10	7.3	4	SF		2	C				
		06	2036		2041	No Flare Patrol													
		07	1101		1102	No Flare Patrol													
		07	1219		1239	No Flare Patrol													
		07	1241		1245	No Flare Patrol													
		07	1604		1638	No Flare Patrol													
		07	1655		1710	No Flare Patrol													
		07	1849		1940	No Flare Patrol													
		07	2040		2054	No Flare Patrol													
		07	2114		2118	No Flare Patrol													
		07	2149		2213	No Flare Patrol													
		07	2224		2400	No Flare Patrol													
		08	0000		0041	No Flare Patrol													
		08	0058		0111	No Flare Patrol													
		08	0950		1324	No Flare Patrol													
		08	1326		1358	No Flare Patrol													
		08	1436		1508	No Flare Patrol													
		08	2030		2047	No Flare Patrol													
		09	0035		0130	No Flare Patrol													
		09	0548		0600	No Flare Patrol													
		09	1024		1040	No Flare Patrol													
		0010	KANZ	09	1109	1113	1133	N22	E37	8092	10	12.3	24	SF		2	C		
0011		09	11493	1153	1217D	N24	E36	8092	10	12.3	28D	SF					13		U
	KANZ	09	1149	1153	1217D	N23	E37	8092	10	12.3	28D	SF		2	C				
	RAMY	09	1152	1153	1215D	N24	E35	8092	10	12.2	23D	SF		3	E		13		U
		09	1222		1228	No Flare Patrol													
		09	1554		1616	No Flare Patrol													
0012	LEAR	10	0349	0353	0411	N24	E27	8092	10	12.2	22	SF		3	E		27		
		11	0508		0529	No Flare Patrol													
0013		11	08455	08561	0918	N23	E12	8092	10	12.3	33	SF					60		FU
	KANZ	11	0845	0857	0921	N23	E12	8092	10	12.3	36	SN		2	C				
	LEAR	11	0850	0856	0914	N22	E14	8092	10	12.4	24	SF		3	E		39		UF
	SVTO	11	0852E	0856U	0917D	N24	E11	8092	10	12.2	25D	SF		2	E		80		F
		11	1819		1933	No Flare Patrol													
		11	1939		1951	No Flare Patrol													
		11	2058		2107	No Flare Patrol													
		11	2125		2214	No Flare Patrol													
0014	LEAR	13	0043	0043	0050	N22	W50	8094	10	9.2	7	SF		3	E		22		

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													Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
		13	1226	1259		No Flare Patrol											
0015		13	2314	2316	2339	N25 W63 8094	10	9.1	25	1N					116		
	LEAR	13	2314	2316	2340	N28 W63 8094	10	9.0	26	1N			3	E	115		
	HOLL	13	2314	2317	2338	N22 W63 8094	10	9.1	24	1F			3	E	116		
		14	1048		1054	No Flare Patrol											
		14	1056		1103	No Flare Patrol											
		14	1105		1156	No Flare Patrol											
		14	1203		1232	No Flare Patrol											
		14	1259		1322	No Flare Patrol											
0016	HOLL	14	2115	2117	2125	N13 E64 8096	10	19.7	10	SF			3	E	34		H
		15	1247		1253	No Flare Patrol											
		15	1311		1313	No Flare Patrol											
		15	1317		1333	No Flare Patrol											
0017	RAMY	16	1723E	1723U	1731D	N20 E85 8097	10	23.2	8D	SF			3	E	21		
0018	LEAR	17	0459	0459	0504	N31 W50 8093	10	13.3	5	SF			3	E	10		
0019	LEAR	17	0541	0542	0547	N31 W50 8093	10	13.3	6	SF			3	E	18		
0020		17	1419I	1421	1430	N32 W56 8093	10	13.2	11	SF					32		F
	SVTO	17	1419	1421	1427	N32 W57 8093	10	13.1	8	SF			3	E	33		F
	RAMY	17	1420	1421	1433	N32 W56 8093	10	13.2	13	SF			4	E	30		F
		19	2150		2217	No Flare Patrol											
		20	2143		2201	No Flare Patrol											
		20	2205		2213	No Flare Patrol											
		21	1013		1014	No Flare Patrol											
		21	1246		1259	No Flare Patrol											
0021		21	1733	1750	1819	N16 E07 8097	10	22.3	46	SF					88		FSU
	HOLL	21	1733	1750	1819	N16 E07 8097	10	22.3	46	SF			3	E	86		US
	RAMY	21	1733	1750	1819	N16 E07 8097	10	22.3	46	SF			4	E	89		F
		21	2211		2212	No Flare Patrol											
		22	1021		1143	No Flare Patrol											
		22	1200		1217	No Flare Patrol											
		22	2151		2203	No Flare Patrol											
		23	0047		0055	No Flare Patrol											
		23	0432		0438	No Flare Patrol											
		24	2255		2302	No Flare Patrol											
		24	2315		2400	No Flare Patrol											
		25	0000		0127	No Flare Patrol											
0022	MEUD	25	1356	1401	1423	N20 E71 8099	10	31.0	27	SF							T
		25	2147		2201	No Flare Patrol											
		25	2209		2400	No Flare Patrol											
		26	0000		0021	No Flare Patrol											
		26	0721		0737	No Flare Patrol											
0023	MEUD	27	1019	1021	1024	S20 E75 8100	11	2.2	5	SF							
0024		27	11492	11511	1156	N21 E46 8099	10	31.0	7	SF					31		0.7
	MEUD	27	1149	1152	1157	N21 E45 8099	10	30.9	8	SF				C	50		0.7
	SVTO	27	1151	1151	1156	N21 E46 8099	10	31.0	5	SF			3	E	12		F
		27	2134		2209	No Flare Patrol											
0025	LEAR	28	0334	0337	0347	S28 E68 8100	11	2.5	13	SN					57		F
0026		28	1254I	1257I	1321	S21 E63 8100	11	2.4	27	1F					101		H
	MEUD	28	1254	1257	1326	S20 E65 8100	11	2.5	32	SF				C			
	RAMY	28	1255	1258	1316	S22 E61 8100	11	2.2	21	1F			3	E	101		H
		29	0637		0724	No Flare Patrol											

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														Time (UT)	Apparent (10-6 Disk)		Corr (Sq Deg)
		29 0739		0743	No Flare Patrol												
0027	KANZ	29 0748	0807U	0807D	N30	W01		10	29.2	19D	SF		2	C			
		29 2137		2200	No Flare Patrol												
0028	KANZ	30 1106E	1114	1126	S20	E40	8100	11	2.5	20D	SF		2	C			
		30 1144		1159	No Flare Patrol												
0029		30 1520	1520	1532	S20	E34	8100	11	2.2	12	SF						24
	RAMY	30 1520	1520	1532	S20	E34	8100	11	2.2	12	SF		4	E			29
	HOLL	30 1528E	1528U	1532	S21	E33	8100	11	2.2	4D	SF		3	E			18
0030	RAMY	30 1609	1609	1614	S19	E33	8100	11	2.2	5	SF		4	E			12
		31 1107		1110	No Flare Patrol												
0031		31 1938	1939	1942	S20	E16	8100	11	2.0	4	SF						23
	RAMY	31 1938	1939	1942	S19	E15	8100	11	2.0	4	SF		3	E			23
	HOLL	31 1938	1939	1943	S20	E16	8100	11	2.0	5	SF		3	E			23

"Remarks"

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|---|---|
| <p>A = Eruptive prominence whose base is less than 90 degrees from central meridian.<br/>         B = Probably the end of a more important flare.<br/>         C = Invisible 10 minutes before.<br/>         D = Brilliant point.<br/>         E = Two or more brilliant points.<br/>         F = Several eruptive centers.<br/>         G = No visible spots in the neighborhood.<br/>         H = Flare accompanied by high-speed dark filament.<br/>         I = Active region very extended.<br/>         J = Distinct variations of plage intensity before or after the flare.<br/>         K = Several intensity maxima.<br/>         L = Existing filaments show signs of sudden activity.<br/>         M = White-light flare.<br/>         N = Continuous spectrum shows effects of polarization.</p> | <p>O = Observations have been made in the H and K lines of Ca II.<br/>         P = Flare shows Helium D3 in emission.<br/>         Q = Flare shows Balmer continuum in emission.<br/>         R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.<br/>         S = Brightness follows disappearance of filament in same position.<br/>         T = Region active all day.<br/>         U = Two bright branches, parallel or converging.<br/>         V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.<br/>         W = Great increase in area after time of maximum intensity.<br/>         X = Unusually wide H-alpha line.<br/>         Y = System of loop-type prominences.<br/>         Z = Major sunspot umbra covered by flare.</p> |
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Observation Type: C=Cinematographic, E=Electronic, P=Photographic, V=Visual